

Attorney's Docket No. K&A 23-0544
Client's Docket No. 15522

APPLICATION

FOR UNITED STATES LETTERS PATENT

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT I, **NORMAN TYLER**, a citizen of
UNITED STATES OF AMERICA, have invented a new and useful
ROTARY BLADE HOLDING TOOL of which the following is a
specification:

ROTARY BLADE HOLDING TOOL

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BACKGROUND OF THE INVENTION

Field of the Invention

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The present invention relates to hand tools and more particularly pertains to a new rotary blade holding tool for facilitating safe and firm grasping of a rotary blade during installation, removal, or repair.

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Description of the Prior Art

The use of hand tools is known in the prior art. U.S. Patent No. 4,956,905 issued to Davidson on September 18, 1990 describes a tool having a horizontal web and spaced flanges to receive a bolt for encircling a rotary blade. U.S. Patent No. 4,736,544 issued to Greenquist on April 12, 1988 discloses a blade holder for sharpening lawnmower blades incorporates a slotted face bar pivotally mounted to a forward portion of a horizontal base plate resting on a bench top. U.S. Patent No. 6,272,724 issued to Sterling et al. on August 14, 2001 provides a blade removing tool including a central support assembly forming a guide adapted to be positioned over a bolt holding a rotary lawn mower blade in position while allowing a socket wrench access to the bolt.

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While these devices fulfill their respective, particular objectives and requirements, the need remains for a relatively simple and efficient device to assist in grasping a rotary blade safely and securely.

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SUMMARY OF THE INVENTION

The present invention generally comprises an elongated bowed sheath having an end opening for receiving a rotary blade therein
10 such that the sheath surrounds an end of the rotary blade.

There has thus been outlined, rather broadly, the more important features of the invention in order that the detailed description thereof that follows may be better understood, and in
15 order that the present contribution to the art may be better appreciated. There are additional features of the invention that will be described hereinafter and which will form the subject matter of the claims appended hereto.

20 The objects of the invention, along with the various features of novelty which characterize the invention, are pointed out with particularity in the claims annexed to and forming a part of this disclosure.

25 BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such
30 description makes reference to the annexed drawings wherein:

Figure 1 is a perspective view of a new rotary blade holding tool according to the present invention.

Figure 2 is a front view of the present invention.

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DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference now to the drawings, and in particular to Figures 1 and 2 thereof, a new rotary blade holding tool embodying the principles and concepts of the present invention and generally
10 designated by the reference numeral 10 will be described.

As best illustrated in Figures 1 and 2, the rotary blade holding tool 10 for facilitating holding a rotary blade 2 during
15 manipulation of the rotary blade 2 generally comprises an elongated sheath 20 having an opening 22 extending into the elongated sheath 20 for snugly receiving an end 4 of the rotary blade 2. Thus, the elongated sheath 20 surrounds and covers the end 4 of the rotary blade 2. The elongated sheath 20 is graspable by a user such that
20 the user can prevent rotation of the rotary blade 2. The elongated sheath 20 preferably has an oblong cross-sectional shape for facilitating comfortable grasping of the elongated sheath 20. The sheath 20 is constructed of metal or other material sufficient to shield and cushion a user's hand grasping the elongated sheath
25 directly over the rotary blade 2. The elongated sheath further has sufficient stiffness to permit control of the rotary blade when grasping a distal end portion of the sheath extending from the distal end of the rotary blade.

30 The elongated sheath 20 is structured to include an aperture 26 extending through the elongated sheath 20. The aperture 26 is

positioned proximate an end 28 of the elongated sheath 20 opposite the opening 22.

The elongated sheath 20 is bowed along a longitudinal axis of the elongated sheath 20. It is intended that the definition of bowing include both smooth arcing of the sheath as well as angling by a distinct bending point. Thus, the elongated sheath 20 securely engages the end 4 of the rotary blade 2 as it is inserted into the opening 22.

Preferred dimensions include the opening 22 having a width of about 1 inch for receiving the end 4 of the rotary blade 2. The elongated sheath 20 has a length of about fifteen and one half inches and a width of about three and one half inches. To provide the bowing, a medial portion 32 of the elongated sheath 20 is offset from ends of the elongated sheath 20 by about one sixteenth inches. The aperture 26 has a diameter of about one half inches.

In use, the end of the rotary blade is inserted into the opening until the bowing of the sheath provides snug engagement of the blade. The blade may then be controlled by grasping of the sheath. The aperture may be used to enhance the grip of the user on the sheath but is also provided to facilitate storage of the sheath by hanging from a bracket or similar device inserted through the aperture.

With respect to the above description then, it is to be realized that the optimum dimensional relationships for the parts of the invention, to include variations in size, materials, shape, form, function and manner of operation, assembly and use, are deemed readily apparent and obvious to one skilled in the art, and all

equivalent relationships to those illustrated in the drawings and described in the specification are intended to be encompassed by the present invention.

5 Therefore, the foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable
10 modifications and equivalents may be resorted to, falling within the scope of the invention.